

## **PUB2606 – Assignment 1**

\*Highlights in Grey lecturer's Answer \*According Study Guide Answer highlighted in Blue

**1. Local Agenda 21 is closely associated with the Reconstruction and Development Programme that aims among other to...**

**(1) unveiling fraud and corruption.**

**(2) mitigating conflict between development and conservation.**

**(3) improving service delivery.**

**(4) improving the quality of life of residents.**

Local Agenda 21 is closely associated with the Reconstruction and Development Programme that aims among other things to

- meet the basic needs of residents by delivering certain minimum services and providing infrastructure
- bring about economic development
- improve the quality of life of residents
- develop human resources (African National Congress, 2014)
- Local government (as the form of government closest to residents) is, in practice, in an excellent position to pursue the objectives of Local Agenda 21 and the RDP. The emphasis that falls on development at local government level is reconfirmed through the idea of integrated development planning. The latter refers to the process

Page 90

**2. Which one of the following statements is correct?**

(1) The WfW programme aims to enhance water security, improve ecological integrity and promote the sustainable use of manmade resources.

(2) Invasive plants absorb small quantities of water, but are inclined to block the flow of rivers and streams, causing an imbalance in natural ecosystems.

**(3) The WfW programme was launched to tackle the problem of invasive alien plants and reduce unemployment among unskilled people.**

(4) WfW is managed jointly by the Department of Water Affairs and Forestry, the Department of Environmental Affairs and the Department of Transport.

### **8.3.1 The Working for Water (WfW) programme**

The WfW programme was launched by government in 1995 to tackle the problem of invasive alien plants and reduce unemployment among unskilled people. Invasive plants such as the black wattle absorb large quantities of water and are inclined to block the flow

118

PUB2606/1

of rivers and streams, causing an imbalance in natural ecosystems and possibly causing weeds and insect pests to proliferate. Such plants should, therefore, be eradicated and

Page 118-119

### 3. Which one of the following statements is correct?

(1) It has been found that CFFs are chiefly responsible for the destruction of ozone molecules.

(2) The ozone layer is situated in the atmosphere between 10 and 50 kilometres above the surface of the earth.

(3) Chloride emitted by CFFs can remain active for 65 years during which time their damaging effect continues

(4) Less quantities of ultraviolet rays reaching the earth can also upset the chemical processes in plants, both on land and in the sea.

## 2.4 DEPLETION OF THE OZONE LAYER

The ozone layer is situated in the atmosphere between 10 and 50 kilometres above the surface of the earth. It is not a static layer since ozone is constantly formed. Oxygen molecules come into contact with ultraviolet rays in the atmosphere and undergo a certain reaction to transform into ozone. The ozone layer serves an important function in the sense that it absorbs the damaging ultraviolet rays of the sun so that they do not reach the earth. Ozone is continually formed, but at the same time, it is exposed to destructive gases and chemical substances that are released into the atmosphere as a result of human industry (Grant & Hawkins 1990:175–176). It has been found that CFCs are chiefly responsible for the destruction of ozone molecules. Chloride emitted by CFCs can remain active for 75 years during which time their damaging effect continues (Huntley et al 1989:33–34).

Page 28

### 4. The achievement of sustainable development requires, among other things, that ...

(1) the carrying capacity of the earth is respected.

(2) global alliances are fought against.

(3) exhaustion of non-renewable resources is legitimate.

(4) development and destruction are integrated in national policy.

during the Rio Conference) is in fact a strategy for applying the principle of sustainable development in practice. According to this, the achievement of sustainable development requires, among other things, that

- quality of life is improved
- the exhaustion of non-renewable resources is prevented
- the carrying capacity of the earth is respected
- attitudes and practices are changed
- a global alliance is formed
- development and conservation are integrated within a national policy (Yeld 1997:8, 9).

Sustainable development can be schematically illustrated in the following way:

Page 116

## 5. Which one of the following statements is correct?

- (1) About 70 percent of the world population live in developed states.
- (2) Population growth cannot be linked to the pressure on natural and manmade environment.
- (3) "Developing states" refers to countries whose economy is largely based on the agricultural sector and the export of unprocessed, raw materials.
- (4) Growing populations place a less strain on the natural and manmade environments.

per annum. This growth rate means that there is an approximate annual increase of 77 million in the world population. At the current growth rate, in 2042 there will be almost 9 billion people in the world. The increase in the world population since the 18th century can be largely ascribed to the discoveries and developments in the medical field which led to a longer life expectancy (Mink 1993:14).

About 70 percent of the world population live in developing states. "Developing states" refers to countries whose economy – in the absence of a strong industrial or manufacturing sector and infrastructure – is largely based on the agricultural sector and the export of unprocessed, raw materials. These countries are further characterised by low incomes per capita (income per person), poverty and illiteracy. Examples of developing countries – which are also often referred to as Third World countries – are Mozambique, India, Paraguay and Chile (Crump 1991:76). The literature often also refers to "least developed countries" (known as LDCs), also known as Fourth World states. Countries that are very poor, such as Ethiopia and Somalia, fall into this group. Projections by the United Nations (UN) indicate that the populations of developing countries will still grow considerably.

Page 23

## 6. The IEM is a comprehensive process to ensure that environmental considerations are taken into account in decision making during all phases of the development process. The aim is to ...

- (1) hamper development and to guide development processes.
- (2) reduce any effects, including possible positive effects, on the environment.
- (3) strictly follow and implement suggestions made by government institutions.
- (4) make available information on the effects of a certain activity on the environment.

The IEM is a comprehensive and systematic process to ensure that environmental considerations are taken into account in decision making during all phases of the development process. The aim is to collect and make available information on the possible effects that a certain activity may have on the environment. On the grounds of this information, a decision can be taken about whether or not that activity should proceed. In certain cases, ways in which the effects on the environment can be reduced are also considered. The IEM does not aim to hamper development, but to guide the development process through the planning to the implementation phases in order to attain a balance between development and conservation (SA Council for the Environment 1989; South Africa, Department of Environmental Affairs 2015).

Page 124

**8. Which one of the following statements is correct?**

(1) Conflict that arise around water led to the Ukraine rules.

(2) To save water, collect rain water.

(3) To save water, bath, rather than shower.

(4) Ethiopia and Sudan, obtain their water from the Tigris rivers.

*How to save water:*

- *Shower, rather than bath.*

36

PUB2606/1

- *If you need to run the water while waiting for it to warm up, collect the water and pour it into the kettle.*
- *Turn off dripping or running taps immediately.*
- *Use the dishwasher or the washing machine only if full of dishes or washing.*
- *Collect rain water.*
- *Turn off the tap while brushing your teeth.*
- *Bath several small children at the same time.*
- *Report burst water pipes to your local authority immediately.*